Motor Positioner
Models R7195A, B

Application
Refer to Figure 1.
The R7195 motor positioner is a single channel solid state proportioning amplifier that will accept an output signal from a controller to position a reversing control motor with a 135Ω or 1000Ω feedback slidewire. Motors with slidewires that have resistances other than 135Ω or 1000Ω will be shunted to one of these two values.
The R7195A motor positioner is factory adjusted to accept 4-20 mA input. The R7195B model positioner is factory adjusted to accept input from a 135Ω re-transmitting slidewire.
The motor positioner can accommodate motors with 100Ω feedback slidewire by removing resistor R33.

Features
- The R7195 motor positioner accepts a 4-20 mA or 135Ω signal to provide position proportional control of M944 Modutrol Motor without balance-relay and M940A, B Actionator.
- It comes in a heavy duty case
- It can be mounted directly on M940 Actuator.
- Solid state design extends product life and reliability.
- Zero, span and deadband adjustments allow motor to be field adjusted to various input ranges; i.e., split ranging.
- Hard Manual feature allows the operator to override the controller (4-20 mA or 135Ω input) action to open or close fully the final control element.
- Reversing direction of the motor can be accomplished by simple wiring change of R7195.
- Output from one R7355 4-20 mA DialaTrol can operate up to 8-R7195A and associated M944s or M940s.
- Output from one 135 ohm Series 90 Controller can operate up to five R7195B.
- Span and zero adjustment do not interact with each other so each ad-

justment can be made independently without having to readjust the other parameter.
- It can operate with motor feedback slidewire between 100 and 1000 ohms.

Figure 1—Motor positioner Models R7195A, B

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Specifications

Operating Conditions

**Electrical Ratings**

*Input:* 120 Vac, 12 VA
220, 240 Vac, 15 VA

*Load:* 24 Vac, 30 VA
120, 220, 240 Vac; 150 VA

**Operating Temperature**

−30°F to 150°F (−35°C to 65°C)

**Design**

*Slidewire Resistance:* 135 ohms or 1000 ohms

*Input Range—R7195A (4-20 mA input)*

*Adjustments:* Zero: 0.8 to 16.8 mA
Span: 2.0 to 20.0 mA

*Factory Settings:*

Zero = 4.0 mA input = 0% to 5% feedback potentiometer position
Full Scale = 20.0 mA input = 95% to 100% feedback potentiometer position

*Input Range—R7195B (135Ω retransmitting slidewire input)*

*Adjustments:* Zero: 0% to 80% of slidewire input
Span: 12.5% to 125% of slidewire input

*Factory Settings:*

Zero = 0%–2% input potentiometer = 0% to 10% feedback potentiometer position
Full Scale = 98% input potentiometer = 90% to 100% feedback potentiometer position

**Repositions**

*Deadband Setting* | *Repositions* | 1% | 100 | 5% | 20

**Input Impedance**

R7195A: 75 ohms
R7195B: 1M ohms

**Approval Bodies**

Underwriters Laboratories Listed, Type 4 Enclosure, Fill E84572; CSA Certified, Enclosure 4, File LR47125

**Dimensions**

Refer to Figure 2.

**Weight**

R7195A: 2.7 lbs (1.2 kg); R7195B: 3 lbs (1.4 kg)

*Specifications are subject to change without notice.*

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**TABLE 1—R7195 Models**

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Operating Voltage</th>
<th>Controller Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7195A1031</td>
<td>120V</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>R7195A1049</td>
<td>240V</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>R7195A1056</td>
<td>120V (equipped for 1000Ω feedback slidewire)</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>R7195A1064</td>
<td>220V</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>R7195B1021</td>
<td>120V</td>
<td>135Ω Input</td>
</tr>
<tr>
<td>R7195B1039</td>
<td>240V</td>
<td>135Ω Input</td>
</tr>
</tbody>
</table>

**Ordering Information**

Specify model number from Table 1.

**Order from:**

Honeywell
1885 Douglas Drive North
Minneapolis, Minnesota 55422

In Canada—
Honeywell Limited
155 Gordon Baker Road
Willowdale Ontario M2H 3N7

For more information, contact the nearest Honeywell sales office or Honeywell, Process Control Division, 1100 Virginia Drive, Fort Washington, PA 19034.

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**Dimensions:**

- millimetres
- inches

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Figure 2—Dimensions drawings—Model R7195A, B motor positioners